

Title (en)

ARRAY SUBSTRATE, DISPLAY PANEL AND DISPLAY DEVICE

Title (de)

ARRAYSUBSTRAT, ANZEIGETAFEL UND ANZEIGEVORRICHTUNG

Title (fr)

SUBSTRAT À RÉSEAU, PANNEAU D’AFFICHAGE ET DISPOSITIF D’AFFICHAGE

Publication

EP 4113496 A4 20230510 (EN)

Application

EP 20943764 A 20200630

Priority

CN 2020099570 W 20200630

Abstract (en)

[origin: US2022208927A1] An array substrate, a display panel, and a display device are provided. The array substrate includes sub-pixels includes a pixel circuit, and the pixel circuit includes a light emitting element, a storage capacitor, a driving transistor, a data writing transistor, a data line and a first connection structure. The driving transistor is configured to control the light emitting element to emit light; the data line is connected to the first electrode of the data writing transistor and configured to provide a data signal for the data writing transistor; the data writing transistor is configured to write the data signal into the gate electrode of the driving transistor; and the first connection structure is connected to both the gate electrode of the driving transistor and a first electrode plate of the storage capacitor, and the first connection structure and the data line are provided in different layers.

IPC 8 full level

G09G 3/3233 (2016.01); **H01L 27/12** (2006.01)

CPC (source: EP US)

G09G 3/3233 (2013.01 - US); **H01L 27/124** (2013.01 - EP); **H10K 59/131** (2023.02 - US); **G09G 3/3233** (2013.01 - EP); **G09G 2300/0443** (2013.01 - US); **G09G 2300/0842** (2013.01 - EP US); **G09G 2310/08** (2013.01 - US); **H01L 27/124** (2013.01 - US); **H10K 59/1213** (2023.02 - US); **H10K 59/1216** (2023.02 - US); **H10K 59/131** (2023.02 - EP)

Citation (search report)

- [X1] US 2020066212 A1 20200227 - KIM SUNG HWAN [KR], et al
- [X1] US 2019303637 A1 20191003 - WANG LIHUA [CN], et al
- See also references of WO 2022000339A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

US 12004389 B2 20240604; **US 2022208927 A1 20220630**; CN 114127836 A 20220301; CN 114127836 B 20240319; CN 118072678 A 20240524; EP 4113496 A1 20230104; EP 4113496 A4 20230510; WO 2022000339 A1 20220106

DOCDB simple family (application)

US 202017280459 A 20200630; CN 2020099570 W 20200630; CN 202080001149 A 20200630; CN 202410230942 A 20200630; EP 20943764 A 20200630